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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,244	06/05/2006	Kai Dolling	Muller-52	8017
39703	7590	11/25/2008	EXAMINER	
C. JAMES BUSHMAN			FIORITO, JAMES	
5851 San Felipe				
SUITE 975			ART UNIT	PAPER NUMBER
HOUSTON, TX 77057			1793	
			MAIL DATE	DELIVERY MODE
			11/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/564,244	DOLLING ET AL.
	Examiner	Art Unit
	JAMES A. FIORITO	1793

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 05 September 2008.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-4, 6-12 and 14-17 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-4, 6-12, and 14-17 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-4, 6-12, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koch US 3152865 in view of Noweck US 6773690.

Koch teaches a process of making boehmite alumina by hydrothermal aging of an aluminum alcoholate (Column 1 Lines 35-45) in the presence of a chelating agent comprised of an organic component containing multi carboxylate ions or a polycarboxylic radical (Column 3 Lines 15-29). The chelating agent is generally used in an amount of about 0.5% to 3% of the dry alumina (Column 2 Lines 44-45). The pH of the mixture is greater than 7, preferably between 8 and 9.5 (Column 2 Lines 35-40).

Koch does not expressly state that the aging process is performed at temperature between 120 and 250 degrees C.

Noweck teaches a process of making boehmitic aluminas, where in a metallic or nonmetallic oxide, or oxide hydrate is present in a hydrothermal aging process, requiring an aging temperature of between 40 and 240 degrees C (Column 3 Lines 5-13).

At the time of invention it would have been obvious to a person of ordinary skill in the art to form the process of Koch including the use of a metallic or nonmetallic oxide, or oxide hydrate in the hydrothermal aging process, requiring an aging temperature of

between 40 and 240 degrees C in view of the process of Noweck. The suggestion or motivation for doing so would have been to make crystalline boehmite aluminas (Column 3 Lines 5-13).

Claims 1-4, 6-12, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Noweck US 6773690 in view of Koch US 3152865.

Noweck teaches a process of making boehmitic aluminas, wherein aluminum alkoxides made by the Ziegler process are hydrolyzed in an aqueous environment (Column 2 Lines 37-40) at a pH of 9 (See Examples). A metallic or nonmetallic oxide, or oxide hydrate is present in the hydrothermal aging process, requiring an aging temperature of between 40 and 240 degrees C (Column 3 Lines 5-13).

Noweck does not teach that the hydrolysis is carried out in the presence of a carboxylic acid.

Koch teaches a process of making boehmite alumina by hydrothermal aging of an aluminum alcoholate (Column 1 Lines 35-45) in the presence of a chelating agent comprised of an organic component containing multi carboxylate ions or a polycarboxylic radical (Column 3 Lines 15-29). The chelating agent is generally used in an amount of about 0.5% to 3% of the dry alumina (Column 2 Lines 44-45). The pH of the mixture is greater than 7, preferably between 8 and 9.5 (Column 2 Lines 35-40).

At the time of invention it would have been obvious to a person of ordinary skill in the art to form the process of Noweck using the chelating agent taught by Koch. The suggestion or motivation for doing so would have been to perform a partial aging of

alumina gel containing boehmite to a stabilized amount of trihydrate (Column 2 Lines 19-20).

Response to Arguments

Applicant's arguments filed 9/5/08 have been fully considered but they are not persuasive.

Applicant argues that Koch and Noweck cannot be combined because Koch teaches using a chelating agent, which is incompatible with a hydrothermal aging step.

In response, Koch expressly teaches that aging may occur according to two different methods (Column 2 Lines 19-25), one of which calls for the adding of a chelating agent after aging to a desired hydrate distribution (Column 2 Line 22). Further the process of Koch teaches that hydrolysis of the aluminum alcoholate is performed at a temperature of between 32 and 100 degrees F. (Column 4 Lines 7-20).

In response to Applicant's argue that the prior art does not teach a pH greater than 9.5, Koch teaches that the pH is preferably between **about** 8 to 9.5 (Column 2 Lines 36-40).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES A. FIORITO whose telephone number is (571)272-7426. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James A Fiorito/
Examiner, Art Unit 1793

/Wayne Langel/
Primary Examiner, Art Unit 1793

Application Number 	Application/Control No.	Applicant(s)/Patent under Reexamination
	10/564,244	DOLLING ET AL.
Examiner	Art Unit	
JAMES A. FIORITO	1793	